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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/726,546	12/04/2003	Paolo Chiesi	245855US0CIP	5501
22850	7590	11/27/2006	EXAMINER	
C. IRVIN MCCLELLAND OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			SAMALA, JAGADISHWAR RAO	
			ART UNIT	PAPER NUMBER
			1618	

DATE MAILED: 11/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/726,546

Applicant(s)

CHIESI ET AL.

Examiner

Jagadishwar R. Samala

Art Unit

1618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 8-34 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 8-34 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 12/4/2003

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____.

DETAILED ACTION

Election Acknowledged

1. Applicant's election with traverse of group I, claims 8-34 in the reply filed on 12-04-2003 is acknowledged. The traversal is on the ground(s) that search is not burden, since all the groups I-III are related to a pharmaceutical composition therapeutic active agent and acid-base couple. This is not found persuasive because group II and III are related to method of treatment involving single and double dose of said pharmaceutical compositions, especially second levodopa composition does not contain said acid-base couple, which changes the composition, function and utility of the respective therapeutic agent.

The requirement is still deemed proper and is therefore made FINAL.

2. claims 8-34 will be presented for examination.

Claim Disposition

3. Claims 8-53 are pending and 8-34 will be presented for examination.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 1618

5. Claims 8-9,12-13,16-19,22-23,26-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Barry et al., (US 5,055,306 here after '306).

Claims 8-9,12-13,16-19,22-23,26-32 are drawn to a pharmaceutical composition comprising levodopa methyl ester and an acid-base couple administering a single oral dose of said composition to a human.

The patent '306 discloses a granular sustained-release formulation of a pharmacologically active substance in the form of a tablet comprising a predetermined dose or number of doses of the pharmacologically active substance and effervescent or water-dispersible ingredients (see column 3, lines 35-44). Also sustained-release formulations has been designed to deliver specific doses of a particular pharmacologically active substance over a predetermined period of time include drugs acting on the gastrointestinal system, the cardiovascular system, anti-hypertensive e.g. methyldopa, levodopa and prazosin, antiparkinsonism drugs e.g. benhexol, levodopa and thereof (see column 7, lines 3+). Also discloses a pharmacologically active substances in an easily swallowed sustained-release form, effervescent and water-dispersible tablets containing functional constituents acid salts such as sodium dihydrogen phosphate, suitable carbonate sources include sodium bicarbonate, sodium sesquicarbonate, sodium glycine carbonate, calcium bicarbonate and thereof and an acid constituent, generally an organic carboxylic acid include citric acid, tartaric acid, fumaric acid, succinic acid and ascorbic acid (see column 8, lines 5-22).

All the elements required by the instant claims 8-9,12-13,16-19,22-23,26-32 are taught by the cited reference. All the claims are clearly anticipated.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 8-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chiesi (US 4,826,875 here after '875) in view of Barry et al., (US 5,055,306 here after '306).

Chiesi discloses a pharmaceutical composition as an immediate release of active principles, or may be formulated to allow a planned and sequential release of levodopa methyl ester and carbidopa for the treatment of Parkinson's disease and neuralgic syndromes connected with it (see abstract and column 6, lines 15-40).

Chiesi fails to disclose pharmaceutical composition wherein additional acid-base couple such as sodium glycine carbonate and fumaric acid capable of reacting rapidly with base, an effervescent action occurs as the carbon dioxide gas is desorbed from the inorganic oxide material. However the use of sodium glycine carbonate and fumaric acid as an effervescent acid-base couple, suitable for dissolving in water or an aqueous solution is well known in the art as shown by Barry et al.

Barry discloses a granular sustained-release formulation of a pharmacologically active substance in the form of a tablet comprising a predetermined dose or number of

Art Unit: 1618

doses of the pharmacologically active substance and effervescent acid-base couple, because the addition of sodium glycine carbonate and fumaric acid provides the effervescent and exothermic reaction when mixed with water to enhance release of a therapeutic agent or water-dispersible ingredients (see column 3, lines 35-44).

It would have been obvious to one of ordinary skill in the art to modify the pharmaceutical composition disclosed by Chiesi to include sodium glycine carbonate-fumaric acid as an effervescent acid-base couple as an additional effervescent compositions as a means of administering solubilized therapeutic agents. Various effervescent compositions are known which have exothermic heats of solution. A number of these are listed in Lange's Handbook of Chemistry, 11th edition, in table 9-6 (page 9-107). The greater the value of the heat of solution, the more heat is liberated per gram-mole of the substance. One of ordinary skill in the art would have been motivated to include the sodium glycine carbonate-fumaric acid as an effervescent acid-base couple as an additional effervescent compositions in the pharmaceutical composition disclosed by Chiesi because the effervescent acid-base couple taught by Barry, while having a similar therapeutic effectiveness of pharmaceutical composition, provides an additional and effervescent advantage of solubilizing therapeutic agents as compared to the pharmaceutical composition disclosed by Chiesi. Utilizing this combination of materials promotes and enhances release of the therapeutic agents beyond that achievable by using either other pharmaceutically acceptable components alone.

Double Patenting

8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 8, 10-11 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,284,272. Although the conflicting claims are not identical, they are not patentably distinct from each other because each are drawn to a pharmaceutical composition comprising active ingredient is a combination of levodopa methyl ester and carbidopa and an effervescent acid-base couple containing fumaric acid-sodium glycine carbonate, wherein administering a single oral dose of said composition to a human with only slightly differences in describing the functionalities of the components. For the most part, the patented claims are within the scope of the instant claims. Claim 1 is generic to all that is recited in claim 1 of US patent 6,284,272. That is, claim 1 falls entirely within the scope of claim 1 of the

Art Unit: 1618

patent, or is anticipated thereby. Further both pharmaceutical compositions require active ingredients levodopa methyl ester and carbidopa and an effervescent components in the same proportions or identical. If issued the "272 patent claims would act as obviating art over the instant claims.

Conclusion

1. No claims are allowed at this time.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jagadishwar R. Samala whose telephone number is (571)272-9927. The examiner can normally be reached on 8.30 A.M to 5.00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Hartley can be reached on (571)272-0616. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

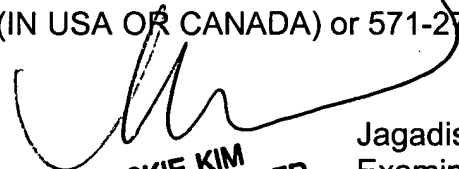
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

Application/Control Number: 10/726,546

Page 8

Art Unit: 1618

USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



VICKIE KIM
PRIMARY EXAMINER

Jagadishwar R Samala
Examiner
Art Unit 1618

sjr